

## Asset #57164.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 1 EQ: N

Asset Type: Constructed Response / Calculator: Non-Calculator

MA-07-1.1.03: Number Sense - Students will convert among whole numbers, fractions, decimals, percents, and pi, and will compare these numbers. DOK-3

- 1. Chris spent \$9 of the \$12 his grandmother gave him.
  - a. Julie said that Chris spent exactly  $\frac{2}{3}$  of his money. Explain why Julie is correct or incorrect.
  - b. Jessie said that Chris spent exactly 0.75 of his money. Explain why Jessie is correct or incorrect.
  - c. Mary said that Chris spent exactly 80% of his money. Explain why Mary is correct or incorrect.



Asset #57164.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 1 EQ: N

### Scoring Guide

Score	Description
4	The student response demonstrates an exemplary understanding of the Number Properties and Operations concepts involved in converting among whole numbers, fractions, decimals and percents to compare numbers.
3	The student response demonstrates a good understanding of the Number Properties and Operations concepts involved in converting among whole numbers, fractions, decimals and percents to compare numbers. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result the response merits 3 points.
2	The student response demonstrates a fair understanding of the Number Properties and Operations concepts involved in converting among whole numbers, fractions, decimals and percents to compare numbers. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points.
1	The student response demonstrates a minimal understanding of the Number Properties and Operations concepts involved in converting among whole numbers, fractions, decimals and percents to compare numbers.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

### **Training Notes**

#### **Additional Notes**

Note that students can take different approaches to this item. For example, they may find that Chris spent  $\frac{3}{4}$  of his money and compare  $\frac{3}{4}$  to the numbers, or they may multiply each of the numbers by \$12.

#### **Sample Response:**

Part a: 
$$\frac{2}{3} \times 12 = 8$$
, so Julie is incorrect.

Part b: 
$$0.75 \times 12 = 8$$
, so Jessie is correct.

Part c: 
$$12 \times 80 \% = 12 \times .08 = 9.6$$
, so Mary is incorrect.

Page 1 of 1

out of the \$12 which is of the money his grandmother goive him. b. Jessie is correct because if you divide 3 by 4, your answer is 0.75. c. macy is incorrect because 0.75 would be 75%.

Contract: 6351 Math

Grade: 07

Content: Math

Booklet: 1403333811

4

Response Code: MA01116

are these explanations complete enough or should they compare: Ex "because. 75 would be 75%, Mot 80% or "3 of the money not 2"

- 16. WITH SAED THAT CHEIS SPENT EXACTING OF HIS MONEY.
  - TO LIE IS INCORRECT BECAUSE TO PHIS MODER IS SE JESSIE SAID THAT CHRIS SPENT EXACTLY O.75 OF HIS MODEN. JESSEE IS CORRECT BECAUSE TO IS OF HELD MONEY.
- MARY SAID THAT CHRIS SPENT EXACTLY 80% OF HIS MONEY, MARY IT INCORRECT BECKUSE TE IT WAT EDWALL To \$0%

Content: Math

Booklet: 1403333594

Response Code: MA01116

a+b C-vaque agree

Page 1 of 1

16. A) Julie is incorrect because \$ is 66.6 % on Chris spent 75% 6 6) Janie is correct because Chris spent 75% c) Mary is meanest because Chris apart 5% less.

Contract: 6351 Math

Grade: 07

Content: Math

Booklet: 1403333686

Response Code: MA01116

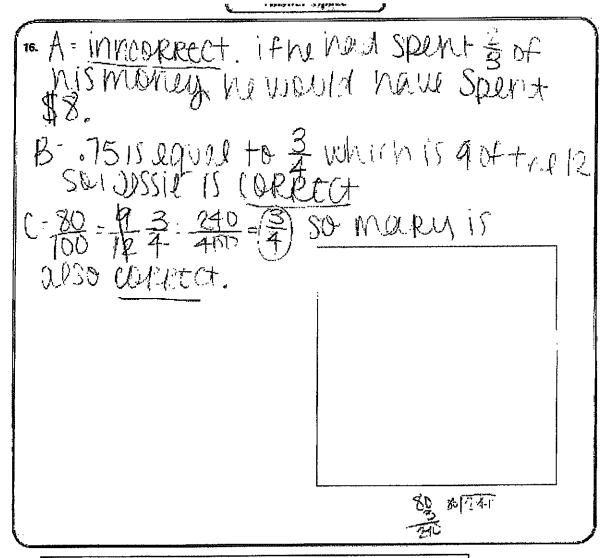
(3)

a-ox

b. doesn't compare it or convert it (given)

C. OK

1



Contract: 6351 Math

Grade: 07

Content: Math

Booklet: 1403338120

Response Code: MA01116

3

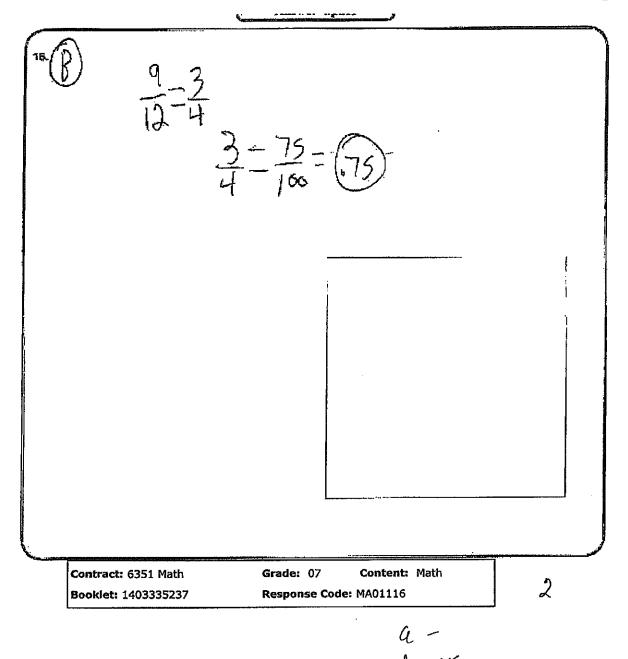
a. ox

b. ox

C. contradictory

A

Page 1 of 1



4

(A) Julie is incorred because he only spent \$3 and on and which is reduced to Eq

(B) Jessie is incorrect because he only sport, 75 of

his money.

(C) many is incorrect because he only spen a

quater of his money.

Contract: 6351 Math

Grade: 07 Content: Math

Booklet: 1403333501 Response Code: MA01116

Minimal I

Page 1 of 1

Contract: 6351 Math Booklet: 1403334920 Grade: 07 Content: Math

1403334920 Response Code: MA01116

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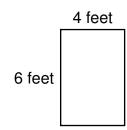


Asset #57186.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 2 EQ: N

Asset Type: Constructed Response / Calculator: Calculator Neutral

MA-07-2.1.01: Measuring Physical Attributes - Students will determine: measures of both regular and irregular polygons, including length to the nearest eighth of an inch or nearest centimeter; the area and perimeter of triangles and quadrilaterals (rectangles, squares, trapezoids) (Using the Pythagorean theorem will not be required as a strategy.); and the area and circumference of circles. DOK-2

2. The measurements of Kevin's garden are shown below.



a. What is the area of Kevin's garden?

Next summer, Kevin wants a garden that has twice as much area as the one he has now.

- a. Describe how Kevin can enlarge his garden so the area will double. Show or explain how you know you are right.
- b. Jill thinks that Kevin can double the area of his garden by doubling both the length and the width. Use words, pictures, or numbers to show that Jill is either correct or incorrect.

BE SURE TO LABEL YOUR RESPONSES a, b, AND c.



Asset #57186.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 2 EQ: N

#### Scoring Guide

Score	Description
4	The student response demonstrates an exemplary understanding of the Measurement concepts involved in determining the area of a rectangle to solve real-world problems.
3	The student response demonstrates a good understanding of the Measurement concepts involved in determining the area of a rectangle to solve real-world problems. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result the response merits 3 points.
2	The student response demonstrates a fair understanding of the Measurement concepts involved in determining the area of a rectangle to solve real-world problems. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points.
1	The student response demonstrates a minimal understanding of the Measurement concepts involved in determining the area of a rectangle to solve real-world problems.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

### Training Notes

#### **Additional Notes**

In Part c, an answer of "Jill is incorrect" without work or explanation does not demonstrate understanding of the Measurement concepts.

### Sample Response:

Part a: 24 square feet

Part b: He could double the width to 8 feet. The area would be  $6 \times 8 = 48$ .

Part c: Jill is wrong. If both the length and width are doubled, the area would be  $12 \times 8 = 96$  sq. ft.

16. Q.) 44 × 64+ = 24.4	7.
(b) he wants the area	to be 48Fx2 so
you just take factors of	£ 48
12 and 4	
6 and 8	
3 and 18	96+ 46+
2 and 24	arga:
	area refer
at the garders -7	
the area is 4 times	
larger	
Ų	
1 and 48  (and 48  (b) Jill is not correct  be cause if you look  at the gardens  The area is 4 times  larger	area: 9642 3

Contract: 6351 Math Booklet: 1402330801

comments go here.4

Content: Math Grade: 06

Response Code: MA03116

a, 6×4=24 Area = 24 feet

b. Double the length or width
This in classe: 12x4=48 or 6x8=48

48 feet 5 devole 1 2 5 it 9189

C She is inconcect borrase

ex: 12 x8=96

Contract: 6351 Math

Booklet: 1402330111

comments go here.3

Grade: 06

Content: Math

Response Code: MA03116

6 TT = A = 24

BR+ another rectangle by its side with its some length and width

6.	1	_
Ę3		]

( You can't double the it would be to bis and he would have too much extra land.

Contract: 6351 Math

Grade: 06

Content: Math

Booklet: 1402330105

Response Code: MA03116

1 - 2

Dadd 2 ft to length and windth

(+12=8 3×6=48ft) 4+3=6 1.4=16 6.6=36 16.36=576

Contract: 6351 Math

Grade: 06

Content: Math

Booklet: 1402330817

Response Code: MA03116

Δ

comments go here.2

b. 2 c. 0

24 fort O. All he has to be is add 6 to the Gord
"I to the 9,

C. Shres correct 12 B Content: Math

Contract: 6351 Math

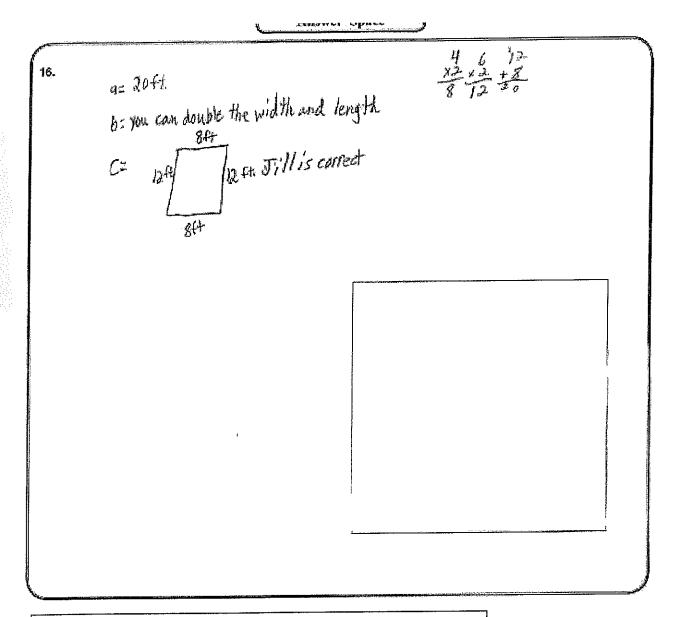
Grade: 06

Booklet: 1402330010

Response Code: MA03116

comments go here.1

A



Grade: 06 Content: Math

Booklet: 1402330012

Response Code: MA03116

comments go here.0

A

7 15.	
a-52, 104	
· · · · · · · · · · · · · · · · · · ·	an act 12 multiply 2by
b:- multiply 2 by 6 y	
4 you get 12 and so yo	ou have 12 by 12
C correct	
12	
12 = 104 yds.	
	and the same of th
	77.2

Grade: 06

Content: Math

Booklet: 1402330021 comments go here.0

Response Code: MA03116

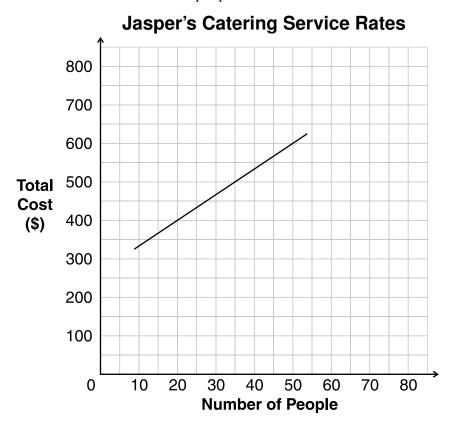


Asset #57204.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 3 EQ: N

Asset Type: Constructed Response / Calculator: Calculator Neutral

MA-07-3.3.01: Coordinate Geometry - Students will identify and graph ordered pairs on a coordinate system, correctly identifying the origin, axes, and ordered pairs; and will apply graphing in the coordinate system to solve real-world problems. DOK-2

3. Jasper's Catering Service has been hired to prepare a dinner for an awards dinner for a school. The graph below shows the total cost to serve different numbers of people.



- a. Based on the graph, what is the total cost to serve 50 people?
- The principal has \$500 to spend on the dinner.
- b. There are 24 students who will go to the dinner. What is the greatest number of guests that can attend the dinner for a total cost of \$500? Show or explain how you found your answer.
- c. Each of the 24 students wants to have 2 guests at the dinner. How much **more** money than \$500 will be needed in order to pay for the dinner? Show or explain how you found your answer.



Asset #57204.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 3 EQ: N

#### Scoring Guide

Score	Description
4	The student response demonstrates an exemplary understanding of the Geometry concepts involved in applying graphing in the coordinate system to solve real-world problems.
3	The student response demonstrates a good understanding of the Geometry concepts involved in applying graphing in the coordinate system to solve real-world problems. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result the response merits 3 points.
2	The student response demonstrates a fair understanding of the Geometry concepts involved in applying graphing in the coordinate system to solve real-world problems. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points.
1	The student response demonstrates a minimal understanding of the Geometry concepts involved in applying graphing in the coordinate system to solve real-world problems.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

#### Training Notes

#### **Additional Notes**

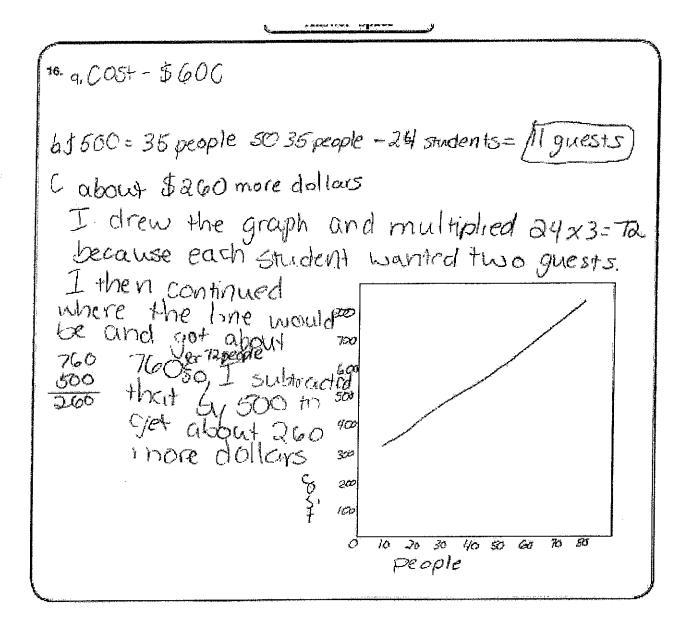
- Part b: Be aware that student response might include the 24 students in the "number of guests that can attend the dinner".
- Note that there is a range of correct values for Part c, e.g., \$238 \$260.

#### Sample Response:

Part a: \$600

Part b: I looked across the line through \$500 to the graph and then went down to 35 so \$500 will pay for 35 people. 35 - 24 = 11, so they can have 11 guests.

Part c:  $24 \times 3 = 72$  people in all. I extended the line on the graph so it went beyond 72. Using the graph it looks like it will cost about \$750, so they'll need another \$250.

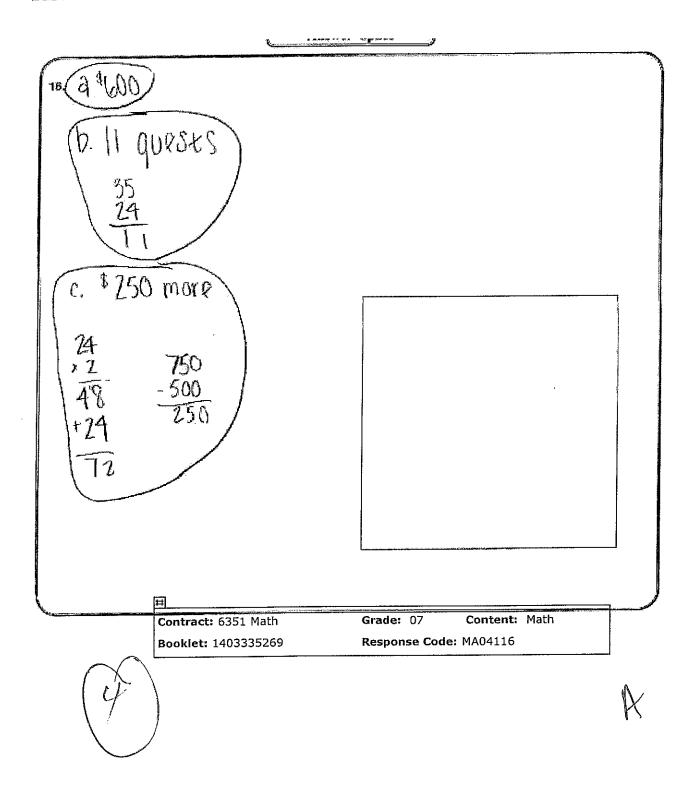


Grade: 07

Content: Math

Booklet: 1403333963

Response Code: MA04116



(16. a, 600 #)
b. Il quests because 35 people ran come for 500# 35-74 stadends = 1
come for 500# 35-24 stadends = 1
C. avound 750 dollars (2)
because 48 greens &
48 + 24 stabents =
72 is obauf
750 H on the
Charge.

Contract: 6351 Math Booklet: 1402330391		Grade: 05	Content: Math
		Response Coo	le: MA01316
5	)		
31	(		
$\mathcal{I}$	de		
	Acquire		

8,600 C. \$250. First you find out the total amount of guests, then after you find that out you extend the graph to fit the number of people = 72, Then since the graphenels at \$1750, you subtract \$500 from \$170 loget \$150

**Contract:** 6351 Math **Booklet:** 1403333622

Grade: 07 Co

Content: Math

Response Code: MA04116



1

1

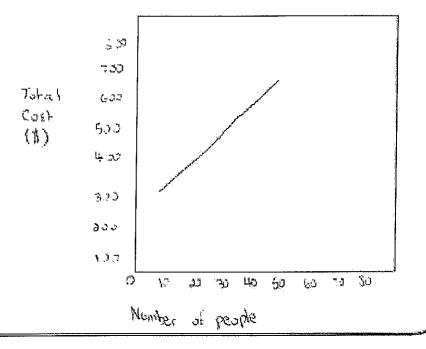
Cyan will see	cause if you look at ad you go all the way 35. Where because 24 plus toost 590 to pay for minus 500:3 90.	5 24;5
Contract: 6351 Math Booklet: 1402330202	Grade: 05 Content: Math Response Code: MA01316	
	•	
12		\
<i>7</i>		

16.

a: The total east lowerus Dipeople is \$625

b. There is a only be 35 people who go to the dinner if the budget is \$500 I found my answer by using the coet.

1: You will need \$1670 for the people to attend the amner, by using the line on the chart I found my answer.



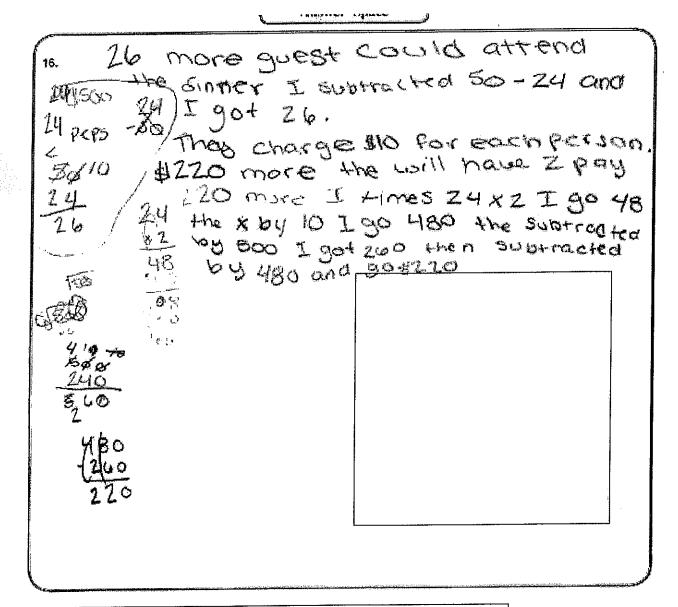


Contract: 6351 Math

Booklet: 1402330169

Response Code: MA01316





Grade: 07 Content: Math

Booklet: 1403333123 Response Code: MA04116







## Asset #57228.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 4 EQ: N

Asset Type: Constructed Response / Calculator: N/A

MA-07-4.4.01: Probability - Students will apply counting techniques to determine the size of a sample space. DOK-2

4. The choices for sandwiches at Smiley's Deli are shown below.

Bread	Meat	Cheese
white (w)	turkey (t)	American (A)
oatmeal (o)	ham (h)	Swiss (S)
pita (p)	roast beef (r)	
	bologna (b)	

- a. Make an organized list or diagram to show all the possible combinations of one meat and one cheese.
- b. How many different kinds of sandwiches can be made using one bread, one meat, and one cheese? Smiley's Deli offers
- c. How many different ways can a person choose three different meats from the five choices? Show or explain how you found your answer.



Asset #57228.000 6380 - KY - Green River, Mathematics, Grade 7, SEQ #: 4 EQ: N

### Scoring Guide

Score	Description
4	The student response demonstrates an exemplary understanding of the Data Analysis and Probability concepts involved in applying counting techniques to determine the size of a sample space for a real-world situation.
3	The student response demonstrates a good understanding of the Data Analysis and Probability concepts involved in applying counting techniques to determine the size of a sample space for a real-world situation. Although there is significant evidence that the student was able to recognize and apply the concepts involved, some aspect of the response is flawed. As a result the response merits 3 points.
2	The student response demonstrates a fair understanding of the Data Analysis and Probability concepts involved in applying counting techniques to determine the size of a sample space for a real-world situation. While some aspects of the task are completed correctly, others are not. The mixed evidence provided by the student merits 2 points.
1	The student response demonstrates a minimal understanding of the Data Analysis and Probability concepts involved in applying counting techniques to determine the size of a sample space for a real-world situation.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

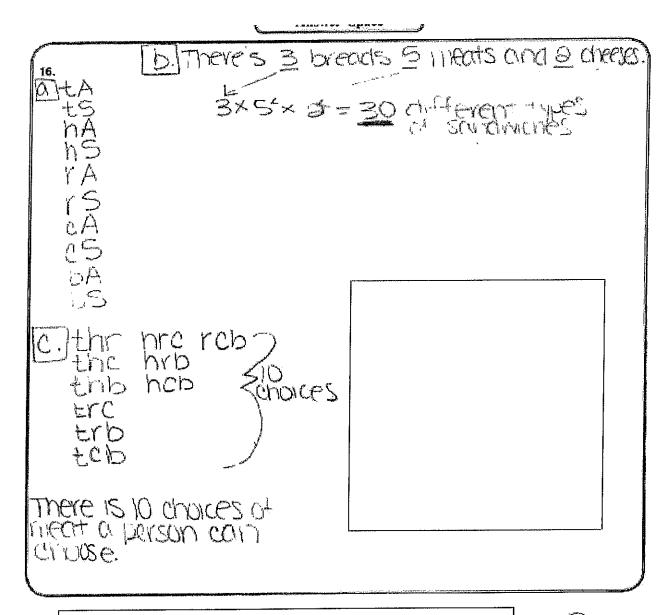
# Training Notes

### **Sample Response:**

Part a: tA, tS, hA, hS, rA, rS, cA, cS, bA, bS

Part b:  $3 \times 5 \times 2 = 30$ 

Part c: There are 10 ways: thr, thc, thb, trc, trb, tcb, hrc, hrb, hbc, rcb



Grade: 07

Content: Math

Booklet: 1403331565

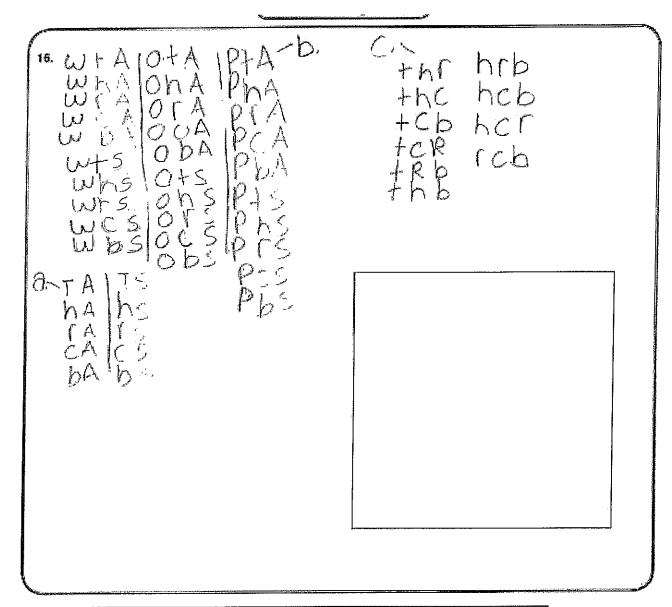
Response Code: MA06116

4

a. 2

b. 2

C. 2



Grade: 05

Content: Math

Booklet: 1402332420 Response Code: MA03316

a.2

b. 1 list w/o total
c 1 list w/o total

TUTKEY
TUTKEY
TOUSTONE
TOUTHEY
TOUSTONE
TOUTHE
TOUSTONE
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b 30 discerent earnousidhes 2 per voised per mecut

C.10 dictorent choices 2 par a mect



Contract: 6351 Math

Grade: 07

Content: Math

Booklet: 1403331128

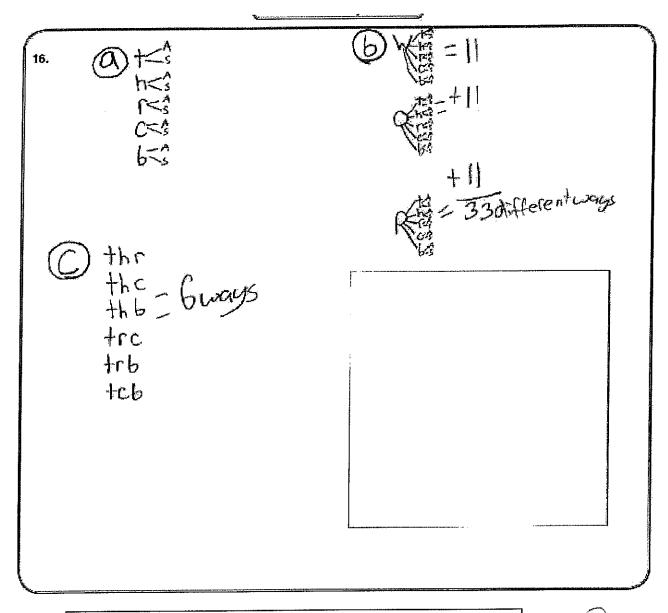
Response Code: MA06116

a, a diagram

b. I ans.

C. Lans

also list fice



Grade: 05

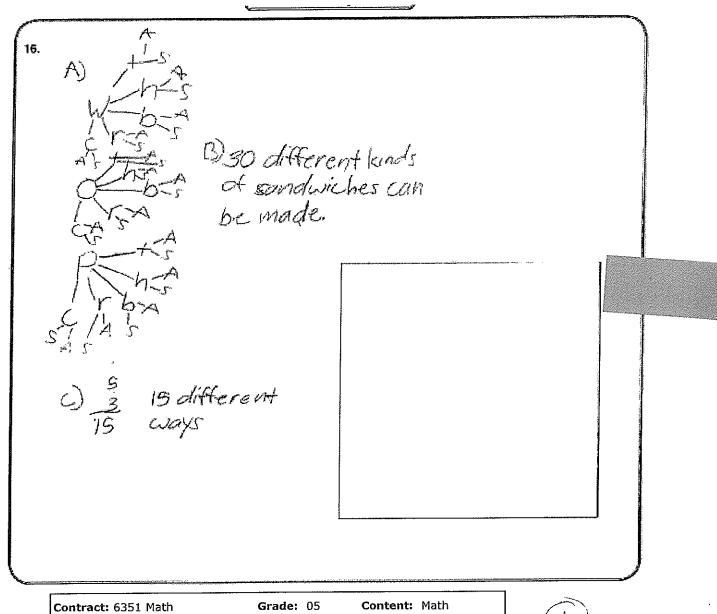
Content: Math

Booklet: 1402332429

Response Code: MA03316

a. 2 wrong totalb. 1 Some correct Combos

C. I partial list



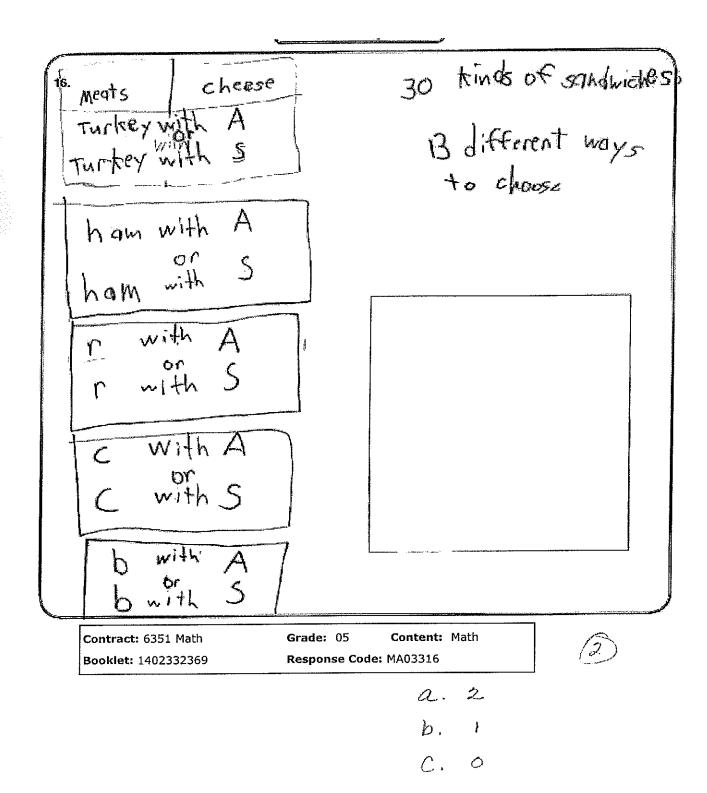
Contract: 6351 Math Booklet: 1402332336 Grade: 05 Content: Response Code: MA03316

 $\alpha$ .

b. 2 listin a

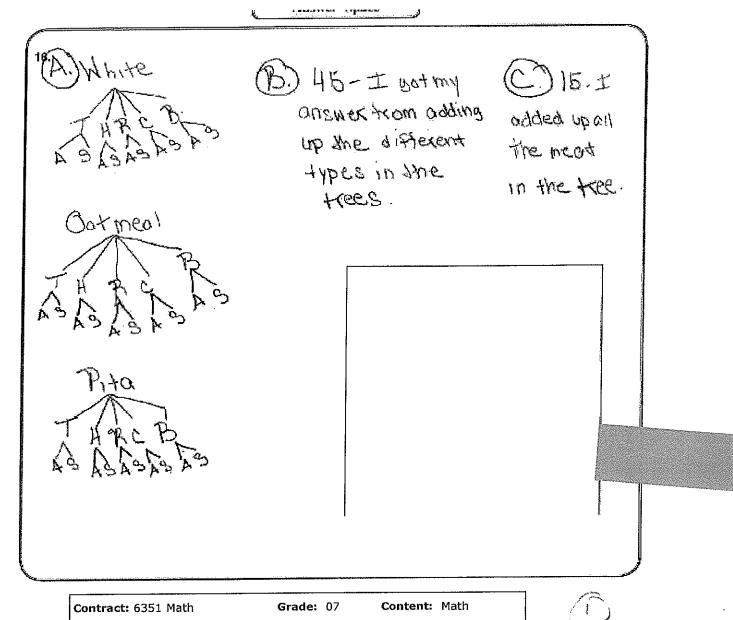
C. 0

0



 $\Lambda$ 

7/6/06



Booklet: 1403330382

Response Code: MA06116

a. 0

ans. is there but doesn't

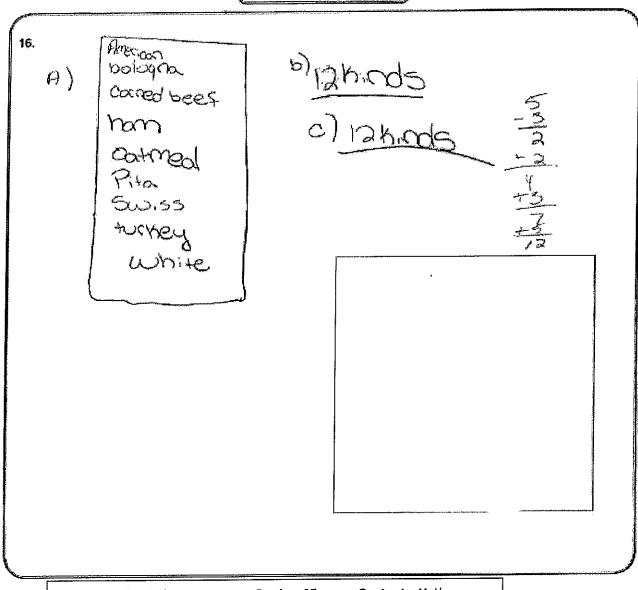
2 ob for a

b. 0

19 m

in part a

/



Grade: 05

Content: Math

Booklet: 1402332355 Response Code: MA03316

a. 0

b. 0

c. O